## 21-23 June 2005, at US Military Academy, West Point, NY

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**Name of Principal Author and all other author(s):** Ms Kiki Michelli

**Principal Author's organization and address:**
OSD Joint Data Support and
  Joint Staff J-8 Models and Analysis Support Office
8000 Joint Staff Pentagon
Washington, DC 20318-8000

Phone: (703) 697-7824

Fax: (703) 693-4601

Email: sheila.michelli@js.pentagon.mil

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Revised title: same_____

Presented in (input and Bold one): (**WG_26**__, CG___, Special Session ___, Poster, Demo, or Tutorial):

## This presentation is believed to be:
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# Supporting
# U.S. Joint Forces Command (JFCOM)
# Need For
# Global Visibility Capability (GVC)

**Presentation to 73rd Military Operations Research Society Symposium (MORSS)**

**Working Group 26, Analysis of Alternatives**

**22 June 2005**

# *Context: The Last 20 Years*

- **Effective force management is more important now than during the Cold War**

  - **Largely static --> highly dynamic military**

  - **Inventory of people in uniform has been cut by 1/3: compare 1989 end strength of 2.1 million to 2004 end strength of 1.4 million**

  - **In the Information Age, data (not weapons systems) are the key combat multiplier**
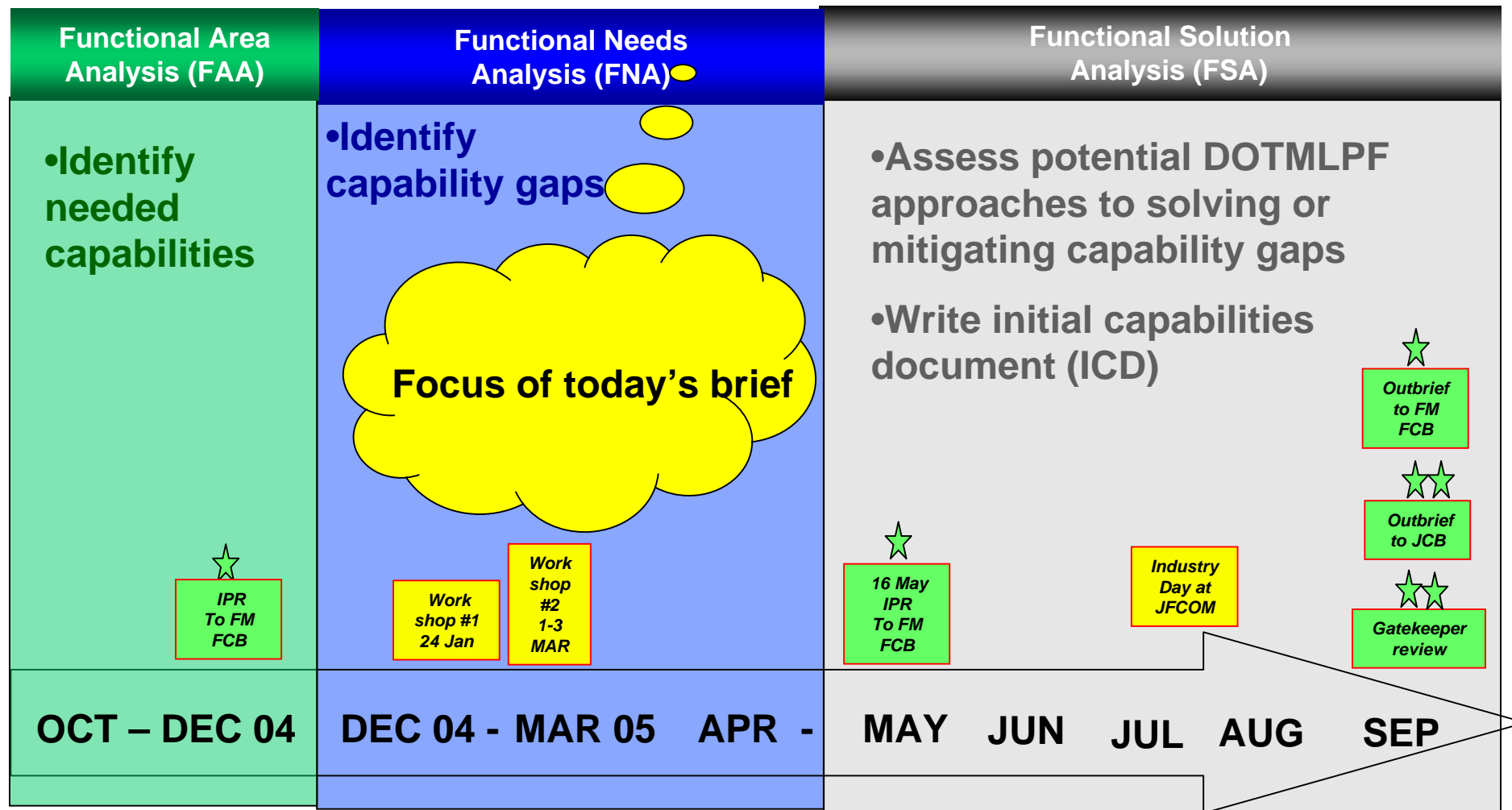
# *Context: The Last 15 Months*

- **In March 2004, three unrelated events occurred**
  - **Office of the Secretary of Defense published Strategic Planning Guidance (SPG) 2006-2011**
    - **"Global Force Management Data Initiative. To support Global Force Management, the CJCS will develop… a joint hierarchical way to organize force structure data for integration across Service lines"**
  - **Office of the Chairman, Joint Chiefs of Staff (CJCS) published CJCS Instruction 3170.01D and CJCS Manual 3170.01A, both on the Joint Capabilities Integration and Development System (JCIDS)**
  - **Secretary of Defense designated JFCOM as primary joint force provider (JFP); JFCOM eventually requested resources to meet the new mission**

# *Problem and Scope*

- **Problem: To improve JFCOM J33 ability to fulfill its primary joint force provider role with better data accuracy and respond more quickly than today**

    - **JFCOM currently uses 20+ tools and databases; responding to SecDef queries and COCOM requests for capability (RFC) or requests for forces (RFF) is time- and labor-intensive**

- **Scope of today's briefing**

    – **Describe processes used in functional area analysis (FAA), functional needs analysis (FNA), functional solution analysis (FSA)**

# *Timeline*

| Functional Area Analysis (FAA) | Functional Needs Analysis (FNA) | Functional Solution Analysis (FSA) |
|---|---|---|
| •Identify needed capabilities | •Identify capability gaps | •Assess potential DOTMLPF approaches to solving or mitigating capability gaps<br><br>•Write initial capabilities document (ICD) |

**Focus of today's brief**

IPR To FM FCB

Work shop #1 24 Jan

Work shop #2 1-3 MAR

16 May IPR To FM FCB

Industry Day at JFCOM

Outbrief to FM FCB

Outbrief to JCB

Gatekeeper review

| OCT – DEC 04 | DEC 04 - MAR 05   APR - | MAY   JUN   JUL   AUG   SEP |
|---|---|---|

6  DOTMLPF = Doctrine, organization, training, materiel, leadership, personnel, facilities

# *Needed Capabilities*
## *Sorted in Order of Priority*

| Use case | Description | JFCOM priority |
|----------|-------------|----------------|
| E | Force availability | High |
| B | Force capabilities identifier | High |
| A | Force structure | High |
| C | Force readiness | High |
| D | GFM strategic guidance | Medium |
| F | Force location | Medium |
| G | Force apportionment | Medium |
| H | Common operating picture | Low |
| I | Works in progress | Low |

# *Functional Needs Analysis Process*

- **DJ8 solicited Services and COCOMs to identify tools that partially or wholly satisfy JFCOM needed capabilities (Dec 2004). Fifty tools were nominated**

- Held 2 workshops, hosted by Joint Staff J-8 and JFCOM J33

  - Workshop #1 (24 Jan 05, Pentagon): JFCOM briefed in detail its needed capabilities to tool subject matter experts, who afterwards completed a detailed questionnaire on their tool

  - Workshop #2 (1-3 March 05, Suffolk):

    - Eighteen tool subject matter experts briefed to JFCOM tool capabilities
    - Joint force providers rated how well each tool fulfills each required capability
    - Workshop output = matrix depicting needed capabilities and existing/future tools that partially or wholly satisfy those needed capabilities, from now through 2011

# *Candidate Systems*

- **Received responses from Services, Joint Staff, COCOMs, DISA**

- **Total number of candidate systems suggested for each use case:**

| | |
|---|---|
| – **A (force structure)** | **26** |
| – **B (force capabilities identifier)** | **20** |
| – **C (force readiness)** | **11** |
| – **D (GFM strategic guidance)** | **13** |
| – **E (force availability)** | **16** |
| – **F (force location)** | **14** |
| – **G (force apportionment)** | **9** |
| – **H (common operating picture)** | **6** |
| – **I (work-in-progress)** | **7** |
| | |
| **TOTAL** | **122 tool-specific functionalities** |

Total of 50 tools

9
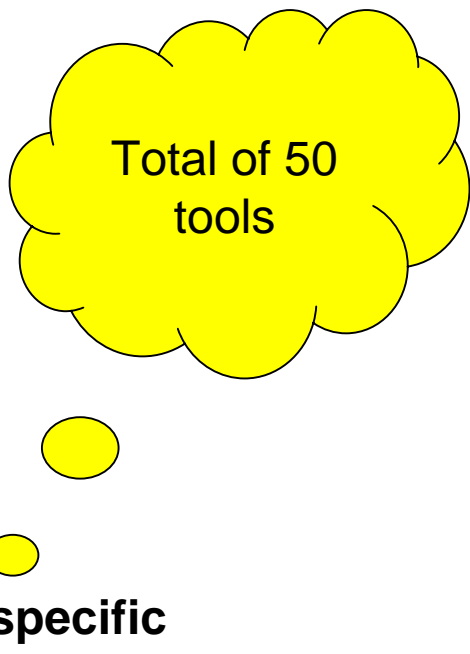
# *Nominated tools*

| | |
|---|---|
| ACCESS database | **Defense Readiness Reporting System (DRRS)** |
| AFWUS/UTC Availability | Expeditionary Combat Support System (ECSS) |
| **Army Readiness Management System (ARMS)** | **Enhanced Status of Resources and Training System (ESORTS)** |
| **Air Expeditionary Force (AEF) Reporting Tool (ART)** | ForceGen |
| ASPEN | Force Management System (FMS) |
| Awareness Planning and Execution | **Force Structure Screening Tool (FSST)** |
| BaS&E | **FORSCOM Sourcing Tool (FST)** |
| Blue Force Tracker | **Global Command & Control System - Joint (GCCS-J)** |
| Command & Control Personal Computer (C2PC) | Global Combat Support System (GCSS) |
| **Collaborative Force Building Analysis, Sustainment and Transportation (CFAST)** | Global Decision Support System (GDSS) |
| Cognos Suite of On-Line Analytical Processing Tools | **Global Status of Resources and Training System (GSORTS)** |
| Deliberate and Crisis Action Planning and Execution Segment (DCAPES)/WPES | **Global Transportation Network 21 (GTN 21)** |
| **Department of the Army Mobilization Processing System (DAMPS)** | HAF-MDS |
| Defense Integrated Military Human Resource System (DIMHRS) | **Joint Capabilities Requirements Tool (JCRT)** |

# *Nominated tools (con'd)*

| | |
|---|---|
| **Joint Event Scheduling System (JESS)** | **Predictive Readiness Assessment System (PRAS)** |
| **JFRG II** | **ProModel** |
| **Joint Force Projection ACTD** | **Rapid Analysis and Production of TPFDD and OPLAN Requirements (RAPTOR)** |
| **Joint Mobilization Processing System (JMPS)** | **Readiness Assessment System Output Tool (RAS OT)** |
| **Joint Operation and Planning and Execution System (JOPES)** | **Single Mobility System (SMS)** |
| **Joint Readiness Automated Management System (JRAMS)** | **Total Force Structure Management System (TFSMS)** |
| **Joint Training Information Management System (JTIMS)** | **TYCOM Readiness Management System Naval Reserve Readiness Module (TRMS-NRRM)** |
| **Logistics Feasibility Assessment Capability (LOGFAC)** | **Web-Enabled Scheduling System (WESKED)** |
| **Logistics Modernization (LOGMOD)** | **War and Mobilization Plan System (WMP), WMP 3** |
| **Mobilization Deployment Integration System (MDIS)** | |
| **Marine Corps Equipment Readiness Information Tool (MERIT)** | |
| **Military Personnel Data System (MilPDS)** | |
| **Mission Task Organized Force Decision Support System (MTOF DSS)** | |

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# *Scorecard instructions*

| | C9 | ▼ | = | |
|---|---|---|---|---|

| | A | B | C |
|---|---|---|---|
| 1 | **Field Name** | **Explanation/Instructions/Comments** | |
| 2 | | | |
| 3 | | The purpose of the Application Scorecard (second tab) is to determine how many of the GVT Required Capabilities are satisfied by your application. The Application Scorecard contains GVT requirements in a granular format. Please indicate your application's satisfaction of these requirements as indicated below. Please provide substantiating information as necessary. If necessary, refer to application documentation in your answers but please cite specific figures, table or paragraph numbers and include softcopy with the pre-Workshop #2 submission (see below). Use a copy of this EXCEL workbook. After completing the Application Scorecard and Supportability Questions (tabs 3 & 4), save the completed workbook file using the applicaton's name, e.g., MYTOOL, and email to Kiki Michelli and Al Galgano along with referenced documentation. | |
| 4 | *<insert your application name>* | Replace *<insert your application name>* with your application name in the print header using File/Print Preview/Setup/Header/Foorter/Custom Header to access the field. | |
| 5 | *Number* | Unique identifier for requirements | |
| 6 | *Capability* | High level or detailed requirement | |
| 7 | *THRESH Req (FY05)* | An"X" indicates this threshold requirement must be satisfied in FY05, the estimated IOC | |
| 8 | *OBJ Req (FY07)* | An"X" indicates this objective requirement must be satisfied in FY07, the estimated FOC | |
| 9 | *Satisfaction of THRESH Req* | How does the candidate application satisfy the Threshold Requirement in FY05? There are three (3) possible answers: "1" - satisfies it now "2" - will satisfy by end of FY05 (please specify scheduled date of operational availability in Threshold Amplifying Information/Comments) "3" - will not satisfy by end of FY05 (please provide information as appropriate, e.g., when/if it will, in Threshold Amplifying Information/Comments) Use Threshold Amplifying Information/Comments field to provide any other pertinent information | |
| | | How does the candidate application satisfy the Objective Requirement in FY07? There are three (3) possible answers: "1" - satisfies it now "2" - will satisfy by end of FY07 (please specify scheduled date of operational availability in Objective Amplifying Information/Comments) "3" - will not satisfy by end of FY07 (please provide information as appropriate, e.g., when/if it will, in Objective | |

# *Scorecard*

A1 = Number

| Number | Capability | THRESH Req (FY05). | OBJ Req (FY07) | Satisfaction of THRESH Req | Satisfaction of OBJ Req | Threshold Requirement Amplifying Information/Comments | Objective Requ... Informati... |
|---|---|---|---|---|---|---|---|
| Use Case A | Force Structure | | | | | | |
| | Provide comprehensive Joint and Service Force Structure inventory data down to the smallest "deployable entity" commonly used to meet RCC requirements, e.g., teams, dets, platoons, squads, troops, companies, elements, etc. possibly down to the MOS/individual | | | | | Provide JFP visibility of DoD Force/capabilities inventory.  Required to establish  units/"deployable entities" baseline to draw from to meet the requested force/capability.  Forces For layout is insufficient to meet JFP requirements.<br><br>The term "smallest 'deployable entity'" when used in the remainder of these requirements refers to teams, dets, platoons, squads, troops, companies, elements possibly down to the MOS/individual. | |
| UC-A-00100.00 | General requirement stated above | X | X | | | | |
| UC-A-00100.01 | USA AC | X | X | | | | |
| UC-A-00100.02 | USA RC | X | X | | | Including NG | |
| UC-A-00100.03 | USAF AC | X | X | | | | |
| UC-A-00100.04 | USAF RC | X | X | | | Including NG | |
| UC-A-00100.05 | USN AC | X | X | | | | |
| UC-A-00100.06 | USN RC | X | X | | | | |
| UC-A-00100.07 | USMC AC | X | X | | | | |
| UC-A-00100.08 | USMC RC | X | X | | | | |
| UC-A-00100.09 | USCG AC | X | X | | | | |
| UC-A-00100.10 | USCG RC | X | X | | | | |
| | Include ad hoc "deployable entities" which are task organized to meet emergent mission requirements in the | | | | | | |

Scorecard Instructions / **Scorecard** / Supportability Instructions / Supportability /

Ready | NUM

# *Supportability instructions*

| | A | B | C | D | E | F |
|---|---|---|---|---|---|---|
| 1 | **Field Name** | **Instructions/Comments** | | | | |
| 2 | | The purpose of these supportability questions (tab 4) is to determine if the application can be used today and to establish the long term cost and supportability of the candidate application. There are two sets of essentially identical questions: one for a SIPRNET resident application and one for a NIPRNET resident application. Use either or both as appropriate. | | | | |
| 3 | *<insert your application name>* | Replace *<insert your application name>* with your application name in the print header using File/Print Preview/Setup/Header/Foorter/Custom Header to access the field.<br><br>Also place the application name where indicated *Full Application Name-->* | | | | |
| 4 | *Number* | Unique identifier for questions | | | | |
| 5 | *Supportability Question/Information* | Questions and information needed to help identify supportability of the candidate application. | | | | |
| 6 | *Yes/No* | Enter Y or N as appropriate | | | | |
| 7 | *If no, when (FY)* | If the answer to the question is No, enter the FY and/or date when the answer will be Yes | | | | |
| 8 | *Answer/Amplifying Information/Comments* | Use this field for answers, amplifying information and comments as needed | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
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| 25 | | | | | | |

Scorecard Instructions / Scorecard / **Supportability Instructions** / Supportability /

# *Supportability*

| A | B | C | D | |
|---|---|---|---|---|
| | **Application Accessed via PC on NIPRNET** | | | |
| Full Application Name--> | | | <-- Full Application Name | |
| SYS-00300.00 | **Programatic** | | | |
| SYS-00300.01 | Program Office (PMO) | | | |
| SYS-00300.02 | PMO Management POC (Name, command/agency/office, phone, Unclassified and Classified email address) | | | |
| SYS-00300.03 | PMO Technical POC (Name, command/agency/office, phone, Unclassified and Classified email address) | | | |
| SYS-00300.04 | Joint or Service application? | | | |
| SYS-00300.05 | If joint, migration path, e.g., DJC2? | | | |
| SYS-00300.06 | Maintenance funded through what FY? | | | |
| SYS-00300.07 | Is there a vision/plan for future development? If so, what is it and is it funded? | | | |
| SYS-00300.08 | If in development, when are IOC and FOC? | | | |
| SYS-00300.09 | Is special training required for access to the application and data? If so, who provides it; where is it given; and how long is it? | | | |
| SYS-00300.10 | Is the users' command/agency billed for access, support or use? If so, how much? | | | |
| | | | | |
| SYS-00400.00 | **Technical** | | | |
| SYS-00400.01 | Version number of application (Client and server if appropriate)? | | | |
| SYS-00400.02 | Accredited and in operational use? Where? If not, when? | | | |
| SYS-00400.03 | Net-centric? | | | |
| SYS-00400.04 | Include all relevant unclassified SIPRNET data dynamically, i.e., via a guarding mechanism? | | | |
| SYS-00400.05 | Application accessible via Internet Explorer? What version(s)? | | | |

Scorecard Instructions / Scorecard / Supportability Instructions / **Supportability**

dy

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    - **Joint force providers rated how well each tool fulfills each required capability**

    - **Workshop output = matrix depicting needed capabilities and existing/future tools that partially or wholly satisfy those needed capabilities, from now through 2011**

# *Functional Needs Analysis Process*

- **DJ8 solicited Services and COCOMs for identification of tools that partially or wholly satisfy JFCOM needed capabilities (Dec 2004). About 50 tools were nominated**

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    - **Twelve joint force providers rated how well each tool fulfills each required capability**

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# *Process for scoring*

- **Twelve evaluators (joint force providers from JFCOM and Joint Staff) using groupware**

- **With completed tool score sheet in view, after each tool SME's briefing, evaluator voted**

  - **-1 = does not fulfill need**
  - **0 = may fulfill need by end of FY 2005**
  - **1 = meets need**
  - **Free-text comments also allowed, including "cannot answer"**

- **Evaluators assessed tool capabilities in 2005, 2007, and 2011**

# *Functional Needs Analysis Process*

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# *FNA Workshop #2*
## *– 2005 Individual and Overall Use Case Grading*



|  | A | B | C | D | E | F | G | H | I | Overall |
|---|---|---|---|---|---|---|---|---|---|---|
| Tool 1 | 🟡 | 🔴 | 🟢 | 🔴 | 🔴 | 🟡 | 🔴 | 🔴 | 🟡 | 🔴 |
| Tool 2 | 🟡 | 🟡 | 🟡 | 🔴 | 🟡 | 🔴 | 🔴 | 🔴 | 🔴 | 🔴 |
| Tool 3 | 🔴 | 🔴 | 🔴 | 🔴 | 🔴 | 🔴 | 🔴 | 🔴 | 🟡 | 🔴 |
| Tool 4 | 🔴 | 🔴 | 🔴 | 🔴 | 🔴 | 🔴 | 🔴 | 🔴 | 🟡 | 🔴 |
| Tool 5 | 🟡 | 🔴 | 🔴 | 🔴 | 🔴 | 🔴 | 🔴 | 🔴 | 🟢 | 🔴 |
| Tool 6 | 🟡 | 🔴 | 🔴 | 🔴 | 🔴 | 🔴 | 🔴 | 🔴 | 🟡 | 🔴 |
| Tool 7 | 🔴 | 🔴 | 🔴 | 🔴 | 🟡 | 🔴 | 🟡 | 🔴 | 🟢 | 🔴 |
| Tool 8 | 🟡 | 🔴 | 🔴 | 🔴 | 🔴 | 🔴 | 🔴 | 🟡 | 🔴 | 🔴 |
| Tool 9 | 🔴 | 🔴 | 🟡 | 🔴 | 🔴 | 🔴 | 🔴 | 🔴 | 🔴 | 🔴 |
| Tool 10 | 🔴 | 🔴 | 🔴 | 🔴 | 🔴 | 🔴 | 🔴 | 🔴 | 🔴 | 🔴 |
| Tool 11 | 🔴 | 🔴 | 🔴 | 🔴 | 🔴 | 🔴 | 🔴 | 🔴 | 🟡 | 🔴 |
| Tool 12 | 🟡 | 🔴 | 🔴 | 🔴 | 🔴 | 🔴 | 🟡 | 🔴 | 🟢 | 🔴 |
| Tool 13 | 🔴 | 🔴 | 🔴 | 🔴 | 🔴 | 🔴 | 🔴 | 🔴 | 🔴 | 🔴 |
| Tool 14 | 🔴 | 🔴 | 🔴 | 🔴 | 🔴 | 🔴 | 🔴 | 🔴 | 🔴 | 🔴 |
| Tool 15 | 🔴 | 🔴 | 🔴 | 🔴 | 🔴 | 🔴 | 🔴 | 🔴 | 🔴 | 🔴 |
| Tool 16 | 🔴 | 🔴 | 🔴 | 🔴 | 🔴 | 🔴 | 🔴 | 🔴 | 🔴 | 🔴 |
| Tool 17 | 🔴 | 🔴 | 🔴 | 🔴 | 🔴 | 🔴 | 🔴 | 🔴 | 🔴 | 🔴 |
| Tool 18 | 🔴 | 🔴 | 🔴 | 🔴 | 🔴 | 🟡 | 🔴 | 🟡 | 🟡 | 🔴 |

**NO TOOLS MEET JFCOM END-TO-END JFP REQUIREMENTS TODAY**

🟢 = Meets requirement in FY05   🟡 = Will meet requirement in FY05   🔴 = Will not meet requirement in FY05

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# *FNA Summary*
### *from 16 May 05 FNA outbrief to Force Management Functional Capabilities Board*

- # Near-term:

  - ### Address policies and processes improvements to enable JFP capability
    - **Standardize & enforce use of JOPES for all force deployments**
    - **Standardize & enforce \*SORTS readiness reporting across all services down to lowest deployable entity level**
  - ### Authorize JFP access to service system data bases
  - ### Implement a standard RFF/DEPORD staffing tool
  - ### Address JFP resource requirements for FY-06 and beyond
    - **End FY-06 FOC attainment date at risk**

- # FSA begins now

  - ### Need to investigate potential industry GVC solutions

- # Mid-term and beyond: Continue to work to improve data validity with the Global Force Management Data Initiative .

# *FSA Timeline*

One reason I'm here is to solicit ideas from you!

| Senior leader consideration and guidance | DOTMLPF analysis | Ideas for materiel approaches | Analysis of materiel approaches (AMA) | Post Independent analysis |
|---|---|---|---|---|
| •22 Apr 1-star meeting<br><br>•25 Apr 4-star meeting<br><br>•6 May O-6 level meeting | •Consider changes to doctrine, organization, training, materiel, leadership, personnel, or facilities | •Leverage expertise of all government agencies, as well as industry, in identifying possible materiel approaches<br><br>•Conduct industry day | •Determine best materiel approach or combination of approaches | •Complete ICD<br><br>•Conduct outbriefs |
| APR - MAY 05 | MAY - JUN | JUN - JUL | AUG | SEP |

# Questions?

# Back-up slides

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# *Global Visibility Baseline Assumptions*

- **Current level of data validity and standardization is insufficient** to meet the requirements for Global Force Management (GFM).

  - Current data bases are incomplete (insufficient level of info/specificity), lack transparency, are inaccessible and are not authoritative across all services.

  - Data management /integration and global visibility are enablers to reach FOC for GFM/JFP.

- **JS/J8 leads the GFM Data Initiative** (directed by the SPG and JPG) to electronically document the Service force structure in a joint hierarchical way **to ensure valid force structure data** is organized and accessable for integration across Service lines.

- IAW 25 June 04  SecDef memo, **Services and COCOMs will make available to JFCOM information on "force commitment, readiness, availability…"**

- **JFP requires flexible access to disparate data sources** whose platforms are adaptable to emerging requirements and data bases.

- **Requirement for global visibility does not replace the need for significant human analysis**; rather it will enable the human factors of the force providing process.

- **JFP requires vehicle for tracking (readiness, location, etc…) of forces** through pre-deployment (mobilization if required), deployment, redeployment and reconstitution.

- **JFP requires means to recommend sourcing solutions** to meet COCOM capability requirements (RFCs)  from an identifiable pool of trained, equipped, manned and ready forces provided by the Services.

# *Needed Capability*
# *Use Case A – Force Structure*

- **Task: Provide comprehensive inventory of DoD Force Structure** which represents capabilities required to meet emergent and rotational requirements.

  – **For Combat Forces, this inventory shall be inclusive of the smallest "deployable entity" commonly used to meet RCC requirements.   The GSORTS unit level code (ULC) field for Combat Forces provides a framework** for meeting this requirement for each Service.

  – **For Combat Support/Combat Service Support (CS/CSS) Forces, this breakdown shall be down to the smallest "deployable entity"** (e.g. teams, dets, platoons, squads, troops, companies, elements, etc.); **possibly down to the MOS/individual.**  Requires comprehensive analysis of all RFF/RFCs generated since OIF build up to identify required levels of reporting/visibility.

  – For aggregation/ "rollup" of capabilities (CSGs, Bdes, etc.), GVT shall account for each individual units/ "deployable entities" as they are tailored over time to meet requirements of requested aggregated/"rollup" capability.

- **Condition:**  A SIPRNET and NIPRNET net-centric accessible application which accesses authoritative Joint, Service, and Agency data representing capabilities within DoD Force structure regardless of classification.  Authoritative data sources and force structure shall be tailorable and dynamic to allow for evolutionary changes.

- **Standard:  Provide JFP visibility of DoD Force/capabilities inventory.**  Required to establish  units/"deployable entities" baseline to draw from to meet the requested force/capability.  Forces For layout is insufficient to meet JFP requirements.

# *Needed Capability*
## *Use Case A – Force Structure (cont.)*

- **Threshold:** **Be able to identify and track all DoD force structure elements (down to the smallest "deployable entities" level)** as defined in the "task" section of this Use Case. Retrieve/input query results and export/import data into application in compliance with joint system of record (GCCS-J, JC2, other?) application standards **(> 75% accuracy).**

- **Objective:** Be able to identify and track (1) all DoD force structure elements (down to the smallest "deployable entities" level) as defined in the "task" section of this Use Case **and (2) all ad hoc "deployable entities" which are task organized to meet emergent mission requirements** (examples are ETTs, ASTs, etc.). Retrieve/input query results and export/import data into application in compliance with joint system of record (GCCS-J, JC2, other?) application standards **(> 95% accuracy).**

# *Needed Capability*
## *Use Case B – Force Capabilities Identifier*

- **Task:  Identify units/"deployable entities of units" (by name, UIC or other designator) that equate to the requested force or capability** (RFF/RFC for contingency operations) and rotational requirements (for ongoing operations, e.g. OIF/OEF/SFOR, etc).

- **Condition:  A SIPRNET and NIPRNET net-centric accessible** application which accesses authoritative Joint, Service, and Agency data representing capabilities within DoD Force structure regardless of classification.  Authoritative data sources and force structure shall be tailorable and dynamic to allow for evolutionary changes.

- **Standard:  Provide JFP a preliminary list of candidate units/"deployable entities"** to meet the requested force/capability. This list of units/"deployable entities" shall represent the entire joint sourcing solution set for meeting each RCC requirement.

# *Needed Capability*
## *Use Case B – Force Capabilities Identifier (cont.)*

- **Threshold:** Be able to identify all DoD force structure elements (down to the smallest "deployable entities" level) as defined in the "task" section of the Force Structure Use Case by capability. Retrieve/input query results and export/import data into application in compliance with joint system of record (GCCS-J, JC2, other?) application standards (> 75% accuracy).

- **Objective:** Be able to identify (1) all DoD force structure elements (down to the smallest "deployable entities" level) as defined in the "task" section of the Force Structure Use Case and (2) any ad hoc force structure by capability. Retrieve/input query results and export/import data into application in compliance with joint system of record (GCCS-J, JC2, other?) application standards (> 95% accuracy).

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# *Needed Capability*
# *Use Case C – Force Readiness*

- **Task:** **Provide measured readiness** (current/project OPTES: Overall, Personnel, Training, Equipment, Supplies) **at the appropriate level of reporting for the required capability/force across the joint sourcing solution set in common language**/standards of measurement (C-rating, R-Y-G, other?).

- **Condition:**  A SIPRNET and NIPRNET net-centric accessible application which accesses authoritative Joint, Service, and Agency data representing capabilities within DoD Force structure regardless of classification. Authoritative data sources and force structure shall be tailorable and dynamic to allow for evolutionary changes.

- **Standard:**  **Provide JFP the visibility of measured readiness for candidate units/ "deployable entities" to meet the requested force/capability.**  Readiness shall include traditional OPTES resource data **as well as mission unique data requirements** for units/"deployable entities" to meet each RCC requirement.

# *Needed Capability*
## *Use Case C – Force Readiness (cont.)*

- **Threshold: Be able to identify current readiness levels as reported by the "unit" commander within one day of status change against all DoD force structure elements (down to the smallest "deployable entities" level)** as defined in the "task" section of the Force Structure Use Case by capability. Retrieve/input query results and export/import data into application in compliance with joint system of record (GCCS-J, JC2, other?) application standards **(> 75% accuracy).**

- **Objective:** Be able to identify current readiness levels as reported by the "unit" commander within one day of status change against (1) all DoD force structure elements (down to the smallest "deployable entities" level) as defined in the "task" section of the Force Structure Use Case by capability **and (2) ad hoc force structure.** Retrieve Retrieve/input query results and export/import data into application in compliance with joint system of record (GCCS-J, JC2, other?) application standards **(> 95% accuracy).**

# *Needed Capability*
# *Use Case D – GFM Strategic Guidance*

- **Task:  Identify red-line violations/considerations for candidate units/"deployable entities"** IAW accepted GFM Strategic Guidance.  Red-line considerations include (at a mininum): **Mob history** (Mobilizations, Demobilizations, Extensions, Re-mob, Mob Authority), **Dwell, Transformation, Ops/Pers Tempo, Readiness** (minimum standards for deployment), **AC/RC/NG specific guidance and any others identified by OSD, Joint Staff or Services in the future.**

- **Condition:** A SIPRNET and NIPRNET net-centric accessible application which accesses authoritative Joint, Service, and Agency data representing capabilities within DoD Force structure regardless of classification. Authoritative data sources and force structure shall be tailorable and dynamic to allow for evolutionary changes.

- **Standard:  Provide JFP the strategic guidance required to prioritize/eliminate candidate units/"deployable entities"** to meet the requested force/capability.  **Strategic guidance shall be dynamic and shall be updated by OSD, JS, and Services (as required)** to ensure JFP visibility of recognized red-lines when recommending sourcing solutions to meet each RCC requirement.

# *Needed Capability*
# *Use Case D – GFM Strategic Guidance (cont.)*

- **Threshold:** **Incorporates all strategic guidance by OSD, Joint Staff and Services required to prioritize all DoD force structure elements (down to the smallest "deployable entities" level)** as defined in the "task" section of the Force Structure Use Case.

- **Objective:** Incorporates all strategic guidance by OSD, Joint Staff and Services required to prioritize (1) all DoD force structure elements (down to the smallest "deployable entities" level) as defined in the "task" section of the Force Structure Use Case **and (2) all ad hoc force structure elements.**

# *Needed Capability*
# *Use Case E - Force Availability*

- **Task: Provide** comprehensive and tailorable (by filter) **overview (current, historic and future) of force availability** for each of the the candidate units/"deployable entities" identified. Required visibility includes (but is not limited to): **deployments** (operational, exercise, and experiments)/redeployments, **PTDOs, Mobilization/Demobilization, Reconstitution/ Reset, Maintenance** (include C-5 designations), **Transformation, JSCP apportionment, COCOM assignment, OPCON/ADCON relationships, planned rotations** (AEFPP, JPP, GNFPP, SSN global allocation, ISR allocation, other?), **and Service identified considerations ("wildcard" entry for Service comments).**

- **Condition:** A SIPRNET and NIPRNET net-centric accessible application which accesses authoritative Joint, Service, and Agency data representing capabilities within DoD Force structure regardless of classification. Authoritative data sources and force structure shall be tailorable and dynamic to allow for evolutionary changes.

- **Standard: Provide JFP the overview of units/"deployable entities" employment over time and is required to prioritize/eliminate candidate units/"deployable entities"** to meet the requested force/capability. Force Availability data shall be dynamic and shall be updated (as required) by OSD, JS, COCOMs and Services to ensure JFP visibility of recognized red-lines/ considerations when recommending sourcing solutions to meet each RCC requirement.

# *Needed Capability*
## *Use Case E - Force Availability (cont.)*

- **Threshold:** **Provide historic (six year past), current, and future (3 year forward) force availability for all DoD force structure elements (down to the smallest "deployable entities" level)** as defined in the "task" section of the Force Structure Use Case.  Retrieve/input query results and export/import data into application in compliance with joint system of record (GCCS-J, JC2, other?) application standards **(> 75% accuracy).**

- **Objective:** Provide historic (six year past), current, and future (3 year forward) force availability for all DoD force structure elements (down to the smallest "deployable entities" level) as defined in the "task" section of the Force Structure Use Case.  Retrieve/input query results and export/import data into application in compliance with joint system of record (GCCS-J, JC2, other?) application standards **(> 95% accuracy).**

# *Needed Capability*
# *Use Case F – Force Location*

- **Task:** **Provide integrated location information for each of the candidate units/"deployable entities"** identified.  Required location visibility (historic, current, future) includes but is not limited to CONUS (major city/state) and Intra- /Inter-Theater (major city/nation) movements for each of the candidate units/"deployable entities".

- **Condition:** A SIPRNET and NIPRNET net-centric accessible application which accesses authoritative Joint, Service, and Agency data representing capabilities within DoD Force structure regardless of classification. Authoritative data sources and force structure shall be tailorable and dynamic to allow for evolutionary changes.

- **Standard:** Provide JFP visibility required **to prioritize/eliminate candidate units/"deployable entities" to meet the requested force/capability and to track units/ "deployable entities throughout the pre-deployment** (mobilization if required), **deployment, redeployment and reconstitution cycle.**  Location information may be determining factor in transportation analysis in selecting one candidate over another or be used to confirm previous deployments/force availability considerations (e.g. BOG) for individual candidates (i.e. "who can get there first?").

# *Needed Capability*
## *Use Case F – Force Location (cont.)*

- **Threshold: Provide historic (six year), current, and future (three year) force locations for all DoD force structure elements (down to the smallest "deployable entities" level)** as defined in the "task" section of the Force Structure Use Case. Retrieve/input query results and export/import data into application in compliance with joint system of record (GCCS-J, JC2, other?) application standards **(> 75% accuracy).**

- **Objective:** Provide historic (six year), current, and future (three year) force locations for all DoD force structure elements (down to the smallest "deployable entities" level) as defined in the "task" section of the Force Structure Use Case.   **Provide historic, current, and future force locations for ad hoc force structure elements as they are identified.**  Retrieve/input query results and export/import data into application in compliance with joint system of record (GCCS-J, JC2, other?) application standards **(> 95% accuracy).**

# *Needed Capability*
## *Use Case G – Force Apportionment*

- **Task: Identify units/"deployable entities of units" (by name, UIC or other designator) apportionment to COCOM plan requirements (OPLAN, CONPLAN, FUNCPLAN).**

- **Condition:  A SIPRNET and NIPRNET net-centric accessible application which accesses authoritative Joint, Service, and Agency data representing capabilities within DoD Force structure regardless of classification.  Authoritative data sources and force structure shall be tailorable and dynamic to allow for evolutionary changes.**

- **Standard:  Provide JFP visibility required to identify units/"deployable entities" aligned to a given COCOM plan and their readiness/status/availability to meet  requirements.  In addition, require JFP to identify a substitute force/capability candidate if the apportioned unit/"deployable entity" is selected by JFP to meet other requirements or is otherwise engaged.**

# *Needed Capability*
## *Use Case G – Force Apportionment (cont.)*

- **Threshold: Be able to accurately track and report on the current apportionment process.** Retrieve/input query results and export/import data into application in compliance with joint system of record (GCCS-J, JC2, other?) application standards **(> 75% accuracy).**

- **Objective:** Be able to accurately track and report on the current apportionment process. Retrieve/input query results and export/import data into application in compliance with joint system of record (GCCS-J, JC2, other?) application standards **(> 95% accuracy).**

# *Needed Capability*
## *Case H – Common Operating Picture*

- **Task:  Provide integrated common operating picture (COP)** which has tailorable, exportable graphics and reports.  Display features of COP shall be tailorable to display ad hoc and routine queries for requested force information but at a minimum **allow the JFP to display/obtain information on the status and location of deploying, deployed and redeploying forces.**  The reporting module of COP shall provide user defined and standard reports in both textual and graphical presentations.

- **Condition:  A SIPRNET and NIPRNET** net-centric accessible application which accesses authoritative Joint, Service, and Agency data representing capabilities within DoD Force structure regardless of classification. Authoritative data sources and force structure shall be tailorable and dynamic to allow for evolutionary changes.

- **Standard:   COP must provide on demand and routine reporting capability** to support the JFP requirement to supervise deployment of forces to meet UCP04 tasking.

# *Needed Capability*
## *Case H – Common Operating Picture (cont.)*

- **Threshold:** Retrieve/input query results and export/import data into application in compliance with joint system of record (GCCS-J, JC2, other?) application standards **(> 75% accuracy)**

- **Objective:** Retrieve/input query results and export/import data into application in compliance with joint system of record (GCCS-J, JC2, other?) application standards **(> 95% accuracy)**

- **Task:** **Save work-in-progress** at end of day or in order to work another RFF/RFC or open previously saved work-in-progress and continue working

- **Condition:** A SIPRNET and/or NIPRNET net-centric accessible application which is populated with authoritative Joint, Service, and Agency data representing capabilities within DoD Force structure. Authoritative data sources and force structure shall be tailorable and dynamic to allow for evolutionary changes.

- **Standard:** Provide ability to: save work-in-progress (working set of forces being considered for a complete or partial RFF/RFC); load saved work-in-progress and update qualifications of forces (readiness, etc.); identify saved works-in-progress associated with a complete or partial RFF/RFC; and transfer a saved work-in-progress to another analyst at the JFP location.

- **Threshold:** <span style="color:red">**Save work-in-progress in < 15 seconds;**</span> number of works-in-progress should be limited only by available storage capacity which must be expandable

- **Objective:** Save work-in-progress in <span style="color:red">**< 5 seconds;**</span> number of works-in-progress should be limited only by available storage capacity which must be expandable